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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	09/298,523
Filing Date	April 23, 1999
First Named Inventor	Briles
Art Unit	1645
Examiner Name	Nita Minnifield
Attorney Docket Number	57909/428

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
<i>mm</i>	1	US-2001/0016200 A1	08-23-2001	Briles et al.	
<i>mm</i>	2	US-2003/0091577 A1	05-15-2003	Gilbert et al.	
<i>mm</i>	3	US-2004/0067237 A1	04-08-2004	Becker et al.	
<i>mm</i>	4	US-5,728,387	03-17-1998	Briles et al.	
<i>mm</i>	5	US-5,871,943	02-16-1999	Briles et al.	
<i>mm</i>	6	US-6,638,516 B1	10-28-2003	Becker et al.	
<i>mm</i>	7	US-6,784,164 B2	08-31-2004	Masure et al.	
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
<i>mm</i>	8	CA 2,104,014	08-16-1992	Briles et al.		
<i>mm</i>	9	CA 2,116,261	10-21-1994	Briles et al.		
<i>mm</i>	10	CA 2,149,345	11-21-1995	Briles et al.		
<i>mm</i>	11	CA 2,232,033	03-20-1997	Briles et al.		
<i>mm</i>	12	CA 2,253,252	11-06-1997	Masure et al.		
<i>mm</i>	13	EP 0 695 803	02-07-1996	Briles et al.		
<i>mm</i>	14	WO 92/14488	09-03-1992	Briles et al.		
<i>mm</i>	15	WO 93/24000	12-09-1993	Yother		
<i>mm</i>	16	WO 98/21337	05-22-1998	Hostetter et al.		
<i>mm</i>	17	WO 02/08426 A2	01-31-2002	Bjorck et al.		

Examiner Signature	<i>Nita Minnifield</i>	Date Considered	9-23-05
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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at 222.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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










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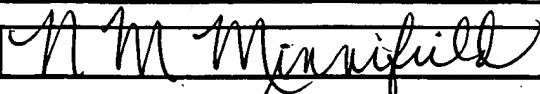
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Application Number	09/298,523
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Examiner Name	Nita Minnifield
Attorney Docket Number	57909/428

Sheet	2	of	3
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	18	GENBANK ACCESSION NO. AF067128 by Hostetter et al. (May 18, 1998)	
	19	SWIATLO et al., "Genetic Analysis of Pneumococcal Surface Protein A (PspA) Using Southern Blot Hybridization with Oligonucleotide Probes," 93 rd ASM General Meeting, Abstract D-70, p. 107 (1993) (abstract)	
	20	CRAIN et al., "Simultaneous Expression of Two Apparent PspA Molecules by Some Capsular Group 6 Isolates of <i>Streptococcus pneumoniae</i> ," 93 rd ASM General Meeting, Abstract D-71, p. 107 (1993) (abstract)	
	21	BROOKS-WALTER et al., "Restriction Fragment Length Polymorphism Analysis of the Pneumococcal Surface Protein A (PspA) of <i>Streptococcus pneumoniae</i> ," 94 th ASM General Meeting, Abstract D-61 (1994) (abstract)	
	22	JEDRZEJAS, "Pneumococcal Virulence Factors: Structure and Function," <i>Microb. Mol. Biol. Revs.</i> 65(2):187-207 (2001)	
	23	DONNELLY et al., "Technical and Regulatory Hurdles for DNA Vaccines," <i>Int. J. Parasitol.</i> 33:457-467 (2003)	
	24	DEONARAIN, "Ligand-Targeted Receptor-Mediated Vectors for Gene Delivery," <i>Exp. Opin. Ther. Pat.</i> 8(1):53-69 (1998)	
	25	GÓRECKI, "Prospects and Problems of Gene Therapy: An Update," <i>Exp. Opin. Emerging Drugs</i> 6(2):187-198 (2001)	
	26	VERMA et al., "Gene Therapy - Promises, Problems and Prospects," <i>Nature</i> 389:239-245 (1997)	
	27	ECK et al., Goodman & Gilman's The Pharmacological Basis of Therapeutics, 9 th Ed., McGraw-Hill, New York, New York, pp.77-101 (1996)	
	28	BALACHANDRAN et al., "Role of Pneumococcal Surface Protein C in Nasopharyngeal Carriage and Pneumonia and Its Ability to Elicit Protection Against Carriage of <i>Streptococcus pneumoniae</i> ," <i>Infection and Immunity</i> 70(5):2526-2534 (2002)	

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9-23-05











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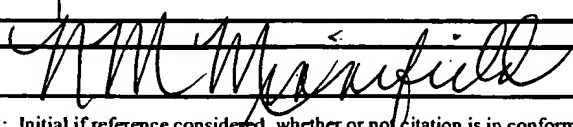
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		Group Art Unit	1645
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		Attorney Docket Number	57909/428
Sheet	2	of	3

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	29	ROSENOW et al., "Contribution of Novel Choline-Binding Proteins to Adherence, Colonization and Immunogenicity of <i>Streptococcus pneumoniae</i> ," <i>Molecular Biology</i> 25(5):819-829 (1997)	
	30	SWIATLO, E., "Studies of Surface Proteins of <i>Streptococcus pneumoniae</i> ," Database Fed Rip on Dialog, Identifying No. 116507 (1997)	
	31	PRUITT et al., "Binding of Human Complement Factor H by PspC of <i>Streptococcus pneumoniae</i> ," <i>FAESB Journal</i> 16(4):A306-A307 (2002)	
	32	HOLLINGSHEAD et al., " <i>Streptococcus pneumoniae</i> : New Tools for an Old Pathogen," <i>Current Opinion in Microbiology</i> 4:71-77 (2001)	
	33	BRILES et al., "Pneumococcal Diversity: Consideration for New Vaccine Strategies with Emphasis on Pneumococcal Surface Protein A (PspA)," <i>Clinical Microbiology Reviews</i> 11(4):645-657 (1998)	
	34	IANNELLI et al., "Allelic Variation in the Highly Polymorphic locus <i>pspC</i> of <i>Streptococcus pneumoniae</i> ," <i>Gene</i> 284:63-71 (2002)	
	35	JANULCZYK et al., "Hic, a Novel Surface Protein of <i>Streptococcus pneumoniae</i> That Interferes with Complement Function," <i>Journal of Biological Chemistry</i> 275(47):37257-37263 (2000)	
	36	BALTIMORE et al., "Pneumococcal Infections," in <i>Bacterial Infection</i> , Chapter 28, Brachman (ed.), Plenum Publishing Corporation, New York (1997)	
	37	JARVA et al., "Complement Resistance Mechanisms of Streptococci," <i>Molecular Immunology</i> 40:95-107 (2003)	
	38	BRILES et al., "Pneumococcal Proteins That May Constitute the Next Generation Vaccine for Pneumococcal Disease," <i>International Congress Series</i> 1257:27-31 (2003)	

Examiner Signature		Date Considered	9-23-05
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